



Activity	Hazard	Risk control measures
1 Working Conditions & Work Permit	Check safety condition for work place	If working for height/elevated place height work permit must be obtained. Equipment and tools inspection must be carried out.
2 Transportation of material	Overturning of trailer due to uneven surface during transportation. Contact with other vehicles. Check stability of piles / other workers from other companies in the way of us mobilizing equipment to different driving locations	To make sure the access road is clear/ and level: slow speed. Signal man to be provided when trailer entering site from main road. Warning signs to be installed on the main road. Driver responsible to continually check the stability of the load he is transporting. Making sure all on site are aware when we are shifting operations
3 Erection	Crane overturning during lifting level and base. Pile material falling from machine.	Make sure lifting gear is adequate and thorough inspection by a competent person is carried out before mobilization. Safe protection and support to be given. Crane certified and inspected by SECL. Suitable PPE approved and inspected by SECL (Helmet Shoe Glove etc.)
4 Lifting of pile	Dragging of pile too far. Improper handling of pile, which could result in damage.	Place piles near to installation point. Suitable wire sling to be provided, wire sling certified and inspected by SECL. All persons to stand clear.
5 Driving of pile	Swinging of pile. Possibility of Pile breaking. Equipment not stable. Workers not protected with P.P.E. Damaged Lifting wire on hammer. Flush from welding. Electric shock from welding and other electrical material.	Monitoring by supervisor in charge to make sure no defects on the pile before and during driving. Ground to be level and able to stand the weight of the machine. Supervisor to check P.P. E. before work commence and all persons to be trained in the correct use and correct type of P.P.E. especially for hearing protection. Supervisor and crane operator to check condition on a regular basis. Erect welding screen to protect other persons in the vicinity from welding flash. Inspection of all electrical equipment to be carried out before work starts and during work.
6 Cleaning of pile	Hammer striking workers. Person falling	Pile driver shall move 4 " away from pile cleaning. All persons climbing the pile frame and working at height must wear and attach to a suitable fixing point a safety harness.
7 Welfare/Medical	Rest shelter, drinking water toilets injury	Provide rest shelter, drinking water, toilet near by . First aid box
8 Emergency response	incident accident	Supervisor should know the emergency contact numbers, assembly point and IOCL first aid center. Stand by vehicle required during work time.